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1925



SEEDS of
" "
HARDY PERENNIALS



CONYERS B. FLEU, JR.
Ross and Montana Streets
GERMANTOWN, PHILA., PA.

HARDY Perennials are easily grown from seeds. Seeds that are planted now will make stocky plants for next Spring's planting and many will be ready to sell. Here are a few suggestions as to preparing your seed bed:

SOIL. The soil should be of a sandy loam and well supplied with humus, and if there is any doubt to this condition, well-rotted manure should be applied. Do not use fresh manure. The well-rotted manure should be thoroughly spaded with the soil and worked in so that it will not come in contact with the seed.

SEEDING. After the spading is finished rake the beds until the soil is in a fine, pulverized condition and then sow the seeds. Usually it is best to plant in rows, as then the seedlings may be more easily distinguished from the weeds, which will facilitate keeping the bed clean. Most of the seeds should be covered with soil not to exceed in depth four times their diameter, firming the soil gently about them.

MOISTURE. Should the soil be inclined to be dry, a good watering will serve to compact it about the seed and also provide the needed moisture. To secure uniform moisture conditions with summer-planted seeds it is often-times a help to shade the beds with frames of building lath, but, of course, these must be removed before the seeds begin to grow. Sharp sand is a good covering for seed, as it is less likely to bake than soil.

It is a good plan to sow the seeds in a cold frame where the seeds can be protected with lath shade and better protected for the winter and will not be washed away by heavy rain storms as in an open bed.

HARDY PERENNIALS

VARIETY	Color	Price per pkt.	Price per Tr.pkt.	Price $\frac{1}{4}$ oz.	Price oz.
Achillea Millefolium Roseum, Rosy Milfoil	Pink	\$15	\$30	\$75	\$3.00
" Ptarmica Fl. Pl., The Pearl	White	.25	.50	1.00	4.00
" Tomentosa	Yellow	.10	.15	.25	.75
Aconitum Napelus, Monkshood	Blue	.15	.30	.50	1.50
Agrostemma Coronaria, Rose of Heaven	Crimson	.10	.15	.20	.35
" " Alba, Rose of Heaven	White	.10	.15	.20	.35
Alyssum Saxatile Compactum, Basket of Gold	Yellow	.10	.20	.30	.60
Anchusa Italica, Dropmore Variety	Blue	.15	.20	.25	.75
Anemone Coronaria, Windflower	Mixed	.10	.20	.25	.60
" St. Brigid, Semi-Double Fine Windflower	Mixed	.25	.50	.65	2.50
Anthemis Kelwayi, Hardy Marguerite	Yellow	.15	.25	.40	1.00
Aquilegia Californica, Columbines	Mixed	.25	.40	.60	2.00
" Canadensis, Columbines	Scarlet and Yellow	.15	.25	.40	1.00
" Chrysanthea, Columbines	Yellow	.25	.40	.65	2.00
" " Fl. Pl., Columbines	Double Yellow	.25	.40	.75	2.50
" " Silver Queen	White	.40	.65	1.00	3.00
" Coerulea, Columbines	Blue and White	.25	.40	.65	2.00
" Flabellata Nana Alba	White	.25	.50	1.00	3.50
" Haylodgensis, Columbines	Pink	.25	.50	1.00	3.50
" Long-Spurred Hybrids, Columbines	Mixed	.25	.50	1.00	4.00
" Nivea Grandiflora	Large White	.15	.25	.40	1.00
" Rose Queen, Columbines	Rose	.50	.75	1.50	5.00
" Single, Columbines	Mixed	.10	.15	.20	.50
" Double, Columbines	Mixed	.10	.15	.25	.60
Arabis Alpina, Rock Cress	White	.10	.15	.20	.50
Armeria Formosa, Sea Pink	Pink	.15	.30	.50	1.50
Asclepias Tuberosa		.25	.40	.65	2.00
Asperula, Sweet Woodruff	White	.15	.25	.40	1.00
Aster Alpinus	Blue	.20	.25	.50	1.50
" " Albus	White	.25	.40	.65	2.00
" Michaelmas, Large Flowered Daisy	Mixed	.25	.40	.60	2.00
Baptisia Australis	Blue	.15	.25	.40	1.00
Bocconia Cordata, Plume Poppy	White	.10	.15	.20	.50
Boltonia Asteroides, False Chamomile	White	.15	.25	.50	1.50
" Latisquana, False Chamomile	Lilac Pink	.15	.25	.50	1.50
Campanula Calycanthus, Canterbury Bells	Blue	.15	.30	.40	1.50
" " " " "	Pink	.15	.30	.40	1.50
" " " " "	White	.15	.30	.40	1.50
" " " " "	Mixed	.15	.25	.35	1.25
Campanula Carpatica, Hare Bells	Blue	.15	.30	.40	1.25
" " Alba, Hare Bells	White	.15	.30	.40	1.25
" Media, Single Canterbury Bells	Blue	.10	.15	.25	.40
" " " " "	Pink	.10	.15	.25	.40
" " " " "	White	.10	.15	.25	.40
" " " " "	Mixed	.10	.15	.25	.30
" " Double " "	Mixed	.15	.25	.40	1.00
" Persicifolia Grandiflora, Peach Bell	Blue	.25	.50	1.00	4.00
" " " " " Alba, Peach Bell	White	.25	.50	1.00	4.00
" Pyramidalis, Chimney Bellflower	Blue	.15	.25	.40	1.00
" " " " " Alba, Chimney Bellflower	White	.15	.25	.40	1.00
Candytuft, Iberis Gibraltarica Hybrida, Lilac	White	.15	.25	.40	1.00
" " Semperfivrens	White	.15	.40	.75	2.50
Centaurea Montana, Cone Flower	Blue	.15	.20	.25	.75
" " Alba	White	.25	.40	.60	2.00

HARDY PERENNIALS (Continued)

VARIETY	Color	Price per pct.	Price per Tr.pkt.	Price per 1/4 oz.	Price per oz.
Cerastium Tomentosa, Snow in Summer	White	.15	.30	.50	1.75
Chrysanthemum, Hardy Pompom	Mixed	.25	.50	1.00	4.00
" Japanese Hybrids	Mixed	.25	.50	1.00	4.00
" King Edward VII	White	.15	.20	.35	.50
" Shasta Daisy, Alaska	White	.25	.40	.60	2.00
Coreopsis Lanceolata Grandiflora	Yellow	.10	.15	.20	.35
Delphinium Belladonna, Larkspur	Light Blue	.25	.40	.60	2.00
" Bellamosum	Blue	.25	.50	1.00	3.00
" Chinese, Larkspur	Blue	.10	.20	.25	.75
" " Album, Larkspur	White	.10	.20	.25	.75
" Elatum, Larkspur	Blue	.25	.40	.60	2.00
" " Hybridum, Larkspur	Mixed	.15	.35	.50	1.25
" " Fl. Pl., Larkspur	Dbl. Mix	.35	.50	1.00	3.00
" Formosum, Larkspur	Blue	.35	.50	1.00	3.00
" " Coelestimum, Larkspur	Blue	.50	.75	1.25	5.00
" Gold Medal Hybrids	Mixed	.15	.25	.40	1.50
" Zalil, Larkspur	Yellow	.50	.75	1.25	5.00
Dianthus Pink, Clove Pinks	Mixed	.10	.20	.25	.60
" Double Scotch, Clove Pinks	Mixed	.15	.30	.40	1.25
" Erfurt, Clove Pinks	Mixed	.25	.40	.75	2.00
" Latifolius Atrococcineus Fl. Pl.	Scarlet	.15	.25	.40	1.00
" Pheasants Eye, Pink	Mixed	.10	.15	.20	.50
" Semperflorens, Everblooming Pink	Mixed	.15	.30	.50	1.50
" Barbatus, Single Sweet William	Mixed	.05	.10	.15	.30
" " Double Sweet William	Mixed	.10	.15	.20	.60
" " Scarlet Beauty	Scarlet	.15	.25	.40	1.00
" " Newport Pink	Pink	.15	.30	.50	1.50
" " Single Velvety	Maroon	.10	.15	.20	.50
" " Single	Crimson	.10	.15	.20	.50
" " Single	Scarlet	.10	.15	.20	.50
" " Single	White	.10	.15	.20	.50
Dictamnus Fraxinella, Gas Plant	Red	.15	.25	.40	1.00
" " Alba	White	.15	.25	.40	1.00
Digitalis, Giant Shirley	Mixed	.25	.50	.75	3.00
" Gloxaeflora, Foxglove	Purple	.10	.20	.25	.60
" " " "	Rose	.10	.20	.25	.60
" " " "	White	.10	.20	.25	.60
" " " "	Mixed	.10	.15	.20	.50
" Grandiflora, Foxglove	Yellow	.10	.20	.25	.75
" Monstrosa, Mammoth Foxglove	Mixed	.10	.20	.25	.75
" Purpurea, Foxglove	Purple	.10	.20	.25	.60
" " Alba, Foxglove	White	.10	.20	.25	.60
Doronicum Plantagineum Excelsum	Yellow	6.00 per 1000 Seeds			
Eulalia Japonica, Ornamental Grasses		.15	.20	.25	.60
" " Zebrina, Ornamental Grasses		.15	.20	.25	.60
Eupatorium Ageratoides, Thoroughwort	White	.15	.20	.25	.75
" Fraseri, Thoroughwort	White	.15	.20	.25	.75
Gaillardia Grandiflora Compacta, Blanket	Mixed	.10	.20	.25	.60
" " Sanguinea, Blanket Flower	Red	.15	.20	.25	.75
" " Semi-double, Bl'k't Flower	Mixed	.15	.20	.25	.75
" " Superba, Blanket Flower	Mixed	.10	.15	.25	.60
" " Kerseanian Splendius, Blanket Flower	Mixed	.15	.20	.25	.75
Geum Atrosanguinum Fl. Pl., Averus	Crimson	.15	.25	.50	1.50
" " Mrs. Bradshaw Dbl. Orange	Scarlet	.35	.50	.75	3.00
Gypsophila Paniculata, Baby's Breath	White	.10	.15	.25	.40
" " Fl. Pl., Baby's Breath	Dbl. White	.50	1.00	1.50	5.00

HARDY PERENNIALS (Continued)

VARIETY	Color	Price per pkt.	Price per Tr. pkt.	Price per ¼ oz.	Price per oz.
Helenium Autumnale Superbum, Sneeze Wort	Yellow	.15	.25	.40	1.00
" Riverton Gem		.15	.25	.40	1.50
Helianthemum Mutabile, Rock Rose	Mixed	.15	.20	.25	.75
Heliopsis Pitcheriana, Orange Sunflower	Yellow	.15	.20	.25	.60
" Scabra Zinniaeflora, Orange Sunflower	Yellow	.15	.25	.40	1.50
Heuchera Sanguinea	Crimson	.40	.50	1.25	4.00
Hibiscus Crimson Eye, Marshmallow	White and Crimson	.10	.15	.25	.50
" Moscheutos, Marshmallow	Pink	.10	.15	.25	.50
" Giant Yellow, Marshmallow	Cream	.25	.35	.50	1.60
" New Giant	Dark Red	.15	.20	.25	.75
" " Mallow	Pink	.15	.20	.25	.75
" " Marshmallow	Pure White	.15	.20	.25	.75
" " Marshmallow	Mixed	.10	.15	.25	.60
Hollyhocks, Allegheny	Mixed	.20	.25	.40	1.00
" Chater's Double	Maroon	.25	.30	.40	1.25
" " "	Red	.25	.30	.40	1.25
" " "	Salmon	.25	.30	.40	1.25
" " "	White	.25	.30	.40	1.25
" " "	Yellow	.25	.30	.40	1.25
" " "	Mixed	.15	.25	.40	1.00
" Single	Pink	.25	.30	.60	2.00
" " "	Red	.25	.30	.60	2.00
" " "	Rose	.25	.30	.60	2.00
" " "	White	.25	.30	.60	2.00
" " "	Mixed	.15	.20	.25	.75
Iberis. See Candytuft					
Iris Kaempferi, Japanese Iris	Mixed	.10	.15	.25	.50
" Germanica, German Iris	Mixed	.15	.25	.40	1.00
Lathyrus Latifolius, Everlasting Pea	Crimson	.15	.20	.25	.75
" " " "	Pink	.15	.20	.25	.75
" " " "	White	.15	.25	.40	1.00
" " " "	Mixed	.15	.20	.25	.75
Lavendula Vera, Lavender	Purple	.15	.20	.25	.75
Liatris, Blazing Star or Gay Feather	Mixed	.10	.15	.25	.75
Linaria Cymbalaria, Kenilworth Ivy		.15	.30	.50	1.50
Linum Perenne	Blue	.10	.15	.20	.40
Lobelia Cardinalis, Cardinal Flower	Scarlet	.15	.40	.75	2.50
Lupinus Arboreus, Lupine	Yellow	.50	.75	1.50	5.00
" Polyphyllus, Lupine	Blue	.10	.15	.20	.40
" " Roseus, Lupine	Pink	.10	.20	.25	.75
" " Lupine	White	.10	.15	.20	.40
" " Moerheimi	Light & Dark Pink	.15	.25	.50	1.50
" " Lupine	Mixed	.05	.10	.15	.30
Lychnis Chalcedonica, Jerusalem Cross	Scarlet	.05	.10	.15	.30
" Haageana, Jerusalem Cross	Mixed	.25	.40	.60	2.00
Myosotis Palustris, True, Forget-me-not	Blue	.35	.50	.75	2.50
Papaver. See Poppy					
Penstemon, Beard Tongue	Mixed	.15	.20	.25	.60
Phlox Decussata, Hardy Phlox	Mixed	.50	.75	1.50	5.00
Physalis Francheti, Chinese Lantern Plant		.25	.35	.50	1.50
Physostegia Virginica, False Dragon Head	Pink	.15	.25	.40	1.00
" " Alba, False Dragon Head	White	.20	.30	.50	1.50

HARDY PERENNIALS (Continued)

VARIETY	Color	Price per pkt.	Price Tr. pkt.	Price $\frac{1}{4}$ oz.	Price oz.
Platycodon Grandiflora, Japanese Bellflower	Blue	.15	.20	.25	.75
" " Alba, Japanese Bellflower	White	.15	.25	.40	1.00
" Japonicus, Dbl. Japanese Bellflower	Blue	.25	.40	.75	2.50
" Mariesii, Japanese Bellflower	Violet-Blue	.25	.35	.60	2.00
Polemonium Coeruleum, Jacob's Ladder	Sky Blue	.05	.10	.15	.50
Polyanthus, Primula Elatior	Finest Mixed	.35	.50	1.00	3.00
Potentilla, Single Hybrids	Mixed	.15	.25	.40	1.00
Poppy Nudicaule Iceland	White	.15	.25	.40	1.00
" " "	Yellow	.15	.25	.40	1.00
" " Single	Mixed	.15	.25	.40	1.00
" " Double	Mixed	.25	.35	.50	1.50
" Oriental, Oriental	Scarlet	.15	.20	.25	.75
" Mrs. Perry	Salmon Pink	.35	.50	1.00	3.00
" Oriflamme	Orange Scarlet	.25	.35	.50	1.50
" Princess Victoria	Salmon	.35	.50	1.00	3.00
" Hybrids, Oriental	Mixed	.15	.25	.40	1.00
Primula Japonica, Japanese Primrose	Mixed	.25	.40	.60	2.00
" Veris, English Cowslip	Mixed	.75	1.00	1.50	5.00
" Vulgaris, English Primrose	Yellow	.50	.75	1.00	3.00
Pyrethrum Hybridum, Single Daisy	Mixed	.25	.35	.50	1.50
" " Fl. Pl., Double Daisy	Mixed	1.25	1.50	1.75	6.00
" Roseum, Daisy	Pink	.35	.50	1.00	3.00
" Uliginosum, Daisy	White	.35	.50	.75	2.50
Rudbeckia Newmanni, Cone Flower	Yellow	.15	.25	.40	1.00
" Purpurea, Cone Flower	Purple	.15	.25	.40	1.00
Salvia Azurea Grandiflora	Sky Blue	.50	.75	1.00	3.00
" Farinacea, Sage	Blue	.25	.30	.40	1.25
Scabiosa Causica, Blue Bonnett	Lavender	.50	.75	1.00	3.00
" " Alba, White Bonnett	White	1.00	1.50	2.00	7.50
" Japonica, Japanese Bonnett	Blue	.15	.20	.25	.50
Sidalcea Rosy Gem, Dwarf	Lavender	.50	.75	1.00	3.00
Statice Latifolia, Sea Lavender	Blue	.20	.30	.40	1.25
Stokesia Cyanea, Cornflower Aster	Blue	.25	.35	.50	1.50
" " Alba, Cornflower Aster	White	.25	.35	.50	1.75
Sunflower Helianthus	Choice Mixed	.15	.25	.40	1.00
Sweet Rocket, Hesperis	Mixed	.10	.15	.20	.50
Thalictrum Adiantifolium	White	.25	.35	.50	1.50
" Aquilegifolium		.25	.30	.50	1.75
" Dipterocarpum	Violet-Mauve	.50	.75	1.00	3.00
Tritoma Hybrida, Red Hot Poker	Mixed	.15	.25	.40	1.00
" Pfitzeri, Flame Flower		.35	.50	.75	2.50
Trollius, Hybrids	Finest Mixed	.25	.40	.75	2.50
Tunica Saxifraga	Pink	.10	.15	.20	.50
Valeriana Rubra, Valerian	Mixed	.10	.15	.20	.50
Veronica Spicata	Blue	.25	.30	.50	1.50

STEELE'S MASTODON PANSY SEED

STEELE'S Mastodon Pansy seed, as you know, produces a well balanced, wide range of colors. They bloom extra early in the spring and will germinate to your entire satisfaction. This seed comes direct from Steele's Pansy Gardens.

Here are a few hints from Mr. Steele on preparing beds for germinating the seed:—

1. Have your ground perfectly clean and free of weeds and trash, pulverized to a depth of six or more inches.
2. On the level surface spread evenly a layer of pulverized manure, barnyard scrapings preferred, to a depth of at least one inch.
3. Overlay manure with half-inch of the best soil you have, thoroughly pulverized.
4. Roll or rake down and tamp surface true and smooth.
5. Use the hose freely and soak down the bed several inches.
6. Sow the seed broadcast or in drills—we sow broadcast.
7. Cover lightly as possible with your best soil or sand. Sand is best.
8. Use spray of water to moisten surface.
9. Allowing plenty of ventilation, keep your beds moist, quite moist, but not soaking wet, until plants come up.

We use unbleached sheeting, cheapest grade, to retain moisture. As soon as plants begin to appear freely, we remove sheeting permanently and sift tops of beds with thin layer of barnyard scrapings. Water young seedlings sparingly to avoid dampening off.

Never allow your beds to become dry. Any dryness after seeds sprout is absolutely fatal. These directions are for sowing in the open field, but will apply when sowing in flats or cold frames. We use 60 to 75 square feet to sow an ounce of seed.

When possible, alternate your pansy crop with some other crop.

Steele's Mastodon Miracle Mixed is a most popular strain which includes white, dark center, dark blue center and light blue center, pure white, black, Burgundy red, lavender, violet, light blue, bronze, royal purple, rose, cerise red, red with silver rim, mahogany, yellow, wine colored, red and gold, lavender and gold, henna red, new, some ruffled types with a dozen or more variations in each color, in size measuring up to three and seven-eighths inches in diameter.

Price: $\frac{1}{16}$ oz., 85c.; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; $\frac{1}{2}$ oz., \$5.25; 1 oz., \$10.00; 2 oz., \$19.00; 4 oz., \$36.00.

Mlle. Irene, New. A shade never before known to pansies. A henna red, and in every other respect a grand flower with a long, strong stem.

Price: $\frac{1}{16}$ oz., \$1.00; $\frac{1}{8}$ oz., \$1.75; $\frac{1}{4}$ oz., \$3.25; $\frac{1}{2}$ oz., \$6.25.

Steele's Mastodon Striata—Our Novelty. Of great size and varied types, mostly dark and rose pink shades, mottled and beautifully striped in true sunburst fashion.

Price: $\frac{1}{16}$ oz., 85c.; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; $\frac{1}{2}$ oz., \$5.25.

Steele's Mastodon Special. Highly recommended.

Price. $\frac{1}{16}$ oz., 65c.; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$3.25; 1 oz., \$6.00; 3 oz., \$16.00; 4 oz., \$21.00.

Should you desire separate colors, $\frac{1}{16}$ oz. each of 16 separate colors, it will cost you \$11.90.

HORTICULTURAL BOOKS

The Nursery Manual: By Prof. L. H. Bailey. Mr. Bailey's Nursery Book was first published in 1891. For about thirty years it has been a standard work on the propagation of plants by means of seeds, layers, cuttings, buds, grafts and otherwise. The present work is the twenty-second edition of it, rewritten and all made new. It contains an extended alphabetic list of plants with full indications under each one for propagation. It also includes an illustrated account of the main diseases and insects of nursery stock, invaluable to the commercial grower. Price, Postpaid, \$3.00

Seeding and Planting: By Prof. James W. Toumey, Yale University. A manual for the guidance of Forestry students, Forester, Nurserymen, Forest owners and Farmers. The Nurseryman and Forester will find this book of great value to him in growing trees from seed. It contains real information and covers the entire subject from the collection of the seed, how they are gathered, treated and extracted to the testing, the storage, the best soil, planting and transplanting, preparing seed beds and protection against birds, etc. Every subject is treated in the greatest detail and is a book you will refer to most every day. Price, Postpaid, \$4.25

Plant Propagation, Greenhouse and Nursery Practice: By M. G. Kains. This is a practical book on the propagation of plants. It is illustrated by numerous drawings and photos taken in nurseries, greenhouses and other establishments in widely separated parts of the United States and abroad. It devotes many pages to special plant lists and condensed directions for propagation of vegetables, fruits, annual and perennial flowers, bulbs, ferns, orchids, evergreens, deciduous trees and shrubs, vines, house and greenhouse plants. Then follow chapters on germination, seed testing, potting, layerage, bottom heat, cuttage, classes of cuttings and graftage. Illustrated, $5\frac{1}{2} \times 7\frac{1}{2}$ inches, 342 pages. Postpaid. \$2.50

The Cultivated Evergreens: By Prof. L. H. Bailey. This book should be in every Nurseryman's, Landscape Gardener's and Architect's office. It supplies authoritative information on the use of evergreens in the planted landscape, on soils and locations, planting and pruning, cultivation, identification, and treatment of the leading insects and diseases. The species and horticultural varieties in the United States and Canada are described for the purpose of identifications, as are also the most important kinds of broad-leaved evergreens, such as rhododendrons, laurels and hollys. It is beautifully illustrated with photographs and line drawings. Price, Postpaid, \$7.50

The Manual of Tree and Shrub Insects: By Ephraim Porter Felt, State Entomologist of New York. The one book indispensable for every Nurseryman to make it possible to combat the ever-increasing tree and shrub insects that attack shade and forest trees and shrubs. The author gives a general account in part one of the book of the nature and transformation of the insects, their place and balance in the world of living things, the checks that have arisen in the course of time, and the means by which man has learned to control them. In part two he is concerned with insects attacking shade trees and ornamentals, and it includes full descriptions of these insects, the injuries they cause, and the means of checking or repairing the damage. Part three deals in a similar way with forest insects, while part four gives a systematic account of the characteristics and habits of the more important groups of insects affecting trees and shrubs. Price, Postpaid, \$3.75

New Edition of Bailey's Cyclopedia of Horticulture: By Prof. L. H. Bailey. This cyclopedia meets every need of the commercial and professional horticulturist, and in the desire to bring this famous work within the means of all lovers of horticulture, the publishers have brought out this three-volume edition at half the price of the former set. This three-volume set contains all the information for which the former six-volume set was so justly famous, being printed from the same plates on special paper which though not bulky is remarkably tough and durable. It makes a compact yet thorough presentation of the kinds, characteristics and methods of cultivation of the species of plants grown in the regions of the United States and Canada for ornament, for fancy, for fruits and for vegetables. Formerly in six volumes at \$40.00, now in three at \$20.00